Date: Sat, 27 Aug 94 04:30:18 PDT
From: Ham-Space Mailing List and Newsgroup <ham-space@ucsd.edu>
Errors-To: Ham-Space-Errors@UCSD.Edu
Reply-To: Ham-Space@UCSD.Edu
Precedence: Bulk
Subject: Ham-Space Digest V94 #238
To: Ham-Space

Ham-Space Digest Sat, 27 Aug 94 Volume 94 : Issue 238

Today's Topics:

Send Replies or notes for publication to: <Ham-Space@UCSD.Edu>
Send subscription requests to: <Ham-Space-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Space Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-space".

Date: 25 Aug 1994 13:00:33 -0700
From: nntp.crl.com!crl4.crl.com!not-for-mail@decwrl.dec.com
Subject: Converting Grid to Lat-Lon
To: ham-space@ucsd.edu

In article <9408250942.ZM25231@SALCIUS2>,
Wayne_Estes@csg.mot.com (Wayne_Estes) wrote:

> I'm looking for a DOS or Windows program that can:
>
>   A. Convert 6-digit Maidenhead grid to Latitude/Longitude.
>   B. Convert Latitude/Longitude to 6-digit Maidenhead grid.

Wayne -

The attached Quick BASIC program will perform the functions you
mentioned above. Sorry, I don't know who was the original author, so
can't give appropriate credits.

73 de Lou / N5SGL

```
    'Grid Square <-> latitude/longitude conversion
    '
START:
    CLS : COLOR 0, 7: PRINT "GRID SQUARE LOCATOR": COLOR 7, 0: PRINT
    PRINT "Which do you want to convert FROM?": PRINT
    COLOR 0, 7: PRINT "L"; : COLOR 7, 0: PRINT "at/Lon   ";
    COLOR 0, 7: PRINT "G"; : COLOR 7, 0: PRINT "rid   ";
    COLOR 0, 7: PRINT "Q"; : COLOR 7, 0: PRINT "uit": PRINT

RPT1:
    a$ = ""
    DO
        a$ = INKEY$
    LOOP UNTIL a$ <> ""
    IF UCASE$(a$) = "Q" THEN END
    IF UCASE$(a$) = "L" THEN GOTO LL
    IF UCASE$(a$) = "G" THEN GOTO GRID
    GOTO RPT1

LL:
    CLEAR : e9 = .000001
    CLS : COLOR 0, 7: PRINT "LAT/LON": COLOR 7, 0: PRINT
    PRINT "Enter SOUTH latitude and EAST longitude as NEGATIVE numbers."
    PRINT
    INPUT "LAT  (DD.MM)"; l
    IF l < -90 OR l > 90 THEN RUN
    INPUT "LON (DDD.MM)"; o
    IF o < -180 OR o > 180 THEN RUN
    os = SGN(o): o = ABS(o): ls = SGN(l): l = ABS(l)
    la = (INT(l) + (l - INT(l)) / .6) * ls
    lo = (INT(o) + (o - INT(o)) / .6) * os
    IF lo < 0 THEN lo = lo + 360
    w3 = 180 - lo: IF w3 < 0 THEN w3 = w3 + 360
    w1 = INT(w3 / 20 + e9)
    w2 = INT((w3 - 20 * w1) / 2 + e9) + 48: w1 = w1 + 65
    w3 = INT(24 * (w3 / 2 - INT(w3 / 2)) + e9) + 65
    l1 = INT((la + 90) / 10 + e9): l2 = INT(la + 90 + e9 - 10 * l1)
    l3 = INT((la + 90 - 10 * l1 - l2) * 24 + e9)
    l1 = l1 + 65: l2 = l2 + 48: l3 = l3 + 65
    g$ = CHR$(w1) + CHR$(l1) + CHR$(w2) + CHR$(l2) + CHR$(w3) + CHR$(l3)
    PRINT : PRINT "Grid square = "; UCASE$(g$)
    LOCATE 24, 1: PRINT "< Press a key to continue >";
    a$ = "": DO: a$ = INKEY$: LOOP UNTIL a$ <> "": GOTO START

GRID:
    CLEAR : e9 = .000001
    CLS : COLOR 0, 7: PRINT "GRID SQUARE": COLOR 7, 0: PRINT
```

```
    PRINT "Enter 2-, 4-, or 6-character grid square."
    PRINT "Short ones will be optimized to center of square.": PRINT
    INPUT "Grid square"; g$
    g$ = UCASE$(g$)
    l3 = LEN(g$): IF l3 < 2 OR l3 > 6 THEN RUN
    IF l3 = 1 OR l3 = 3 OR l3 = 5 THEN RUN
    SELECT CASE l3
        CASE 2
            g$ = g$ + "55LL"
        CASE 4
            g$ = g$ + "LL"
    END SELECT
    LOCATE CSRLIN - 1, 1: PRINT "Grid square = "; g$; "      "
    RESTORE
    FOR x = 1 TO 6
        READ y$, z$
        t$ = MID$(g$, x, 1): IF t$ < y$ OR t$ > z$ THEN RUN
    NEXT x
    DATA A,R,A,S,0,9,0,9,A,X,A,X
    w1 = ASC(LEFT$(g$, 1)) - 65
    w2 = ASC(MID$(g$, 3, 1)) - 48
    w3 = ASC(MID$(g$, 5, 1)) - 65
    lo = 180 - 20 * w1 - 2 * w2 - w3 / 12 - 1 / 24
    IF lo < 0 THEN lo = lo + 360
    l1 = ASC(MID$(g$, 2, 1)) - 65
    l2 = ASC(MID$(g$, 4, 1)) - 48
    l3 = ASC(RIGHT$(g$, 1)) - 65
    la = -90 + 10 * l1 + l2 + l3 / 24 + 1 / 48
    IF lo > 180 THEN lo = lo - 360
    ls = SGN(la): la = ABS(la)
    l = (INT(la) + INT((la - INT(la)) * 60) / 100) * ls
    os = SGN(lo): lo = ABS(lo)
    o = (INT(lo) + INT((lo - INT(lo)) * 60) / 100) * os
    PRINT
    PRINT "LAT   (DD.MM) ="; l
    PRINT "LON  (DDD.MM) ="; o
    PRINT
    PRINT "(SOUTH latitude and EAST longitude shown as negative numbers.)"
    LOCATE 24, 1: PRINT "< Press a key to continue >";
    a$ = "": DO: a$ = INKEY$: LOOP UNTIL a$ <> ""
    GOTO START
```

Date: 25 Aug 1994 12:45:37 GMT
From: hatch.sonalysts.com!gerheim@uunet.uu.net
Subject: QSL Route for RS-12 Robot
To: ham-space@ucsd.edu

Does anyone know the QSL route for the RS-12 robot? I worked it a few
weeks ago, and don't recall the route. TNX,

--
****
Al Gerheim   Sonalysts, Inc.
Email: gerheim@sonalysts.com   215 Parkway North
Work: (203)442-4355   Waterford CT 06385
****

End of Ham-Space Digest V94 #238
****